

Smart Active Clad Alignment fusion splicer

Q502S

Powered by



Next generation splicing performance



Compact and light 1.2 kg



Reduce work time Splicing 6s Heating 12s



Hot Core Analyzing



Splice Data Utilization

Specifications Q502S Material Optical fiber Fiber count / Profile types Single / SME(G.652), MME(G.651), DSE(G.653), NZDSE(G.655), BIE(G.657) Fiber diameter Cladding diameter: 125 um, Coating diameter: 250um to 3mm (by multi clamp option) requirements Cleave length to 16mm for single fiber, 8mm for drop cable Splice loss (typical)* SMF: 0.03dB, MMF: 0.01dB, DSF: 0.05dB, NZDSF: 0.05dB 60dB or greater 6sec (SM G652 Quick Mode) 12sec (FPS-61-2.6 sleeve, S60mm 0.25 Quick Mode) Return loss (typical) Splice time (typical) Standard Heating time (typical) Splice & Heat cycles per battery full charge*3 Approx. 250 (BU-17) performance Fiber view & magnification 2 CMOS cameras observation, 180X (zoom : 370X) for X or Y single axis view Proof test 1.96 ~ 2.09N 60mm, 40mm & Sumitomo Nano sleeves Max. 300, 18 are pre-optimised, 282 editable by user Applicable protection sleeve Splice programs Heating programas **Programs** Max. 100, 27 are pre-optimised, 73 editable by user 200 images / 10,000 splice data (internal memory only) 50,200 / 20,000 (With 16GB SD card) Splice image capture / Splice data strage Multi clamp Applicable for 250 & 900um coated fiber, 900um loose buffer fiber, 2 & 3mm jacket cord and rectangular drop cable Heater clamp for splice on connector Provided Auto-start Splice / Heating **Functions** Automatic fiber identification SMF / MMF Automatically compensates for environmental condition changes Automatic arc calibration Provided, HCA: Hot Core Analyzing Core loss estimation Wireless LAN connectivitiv (Option)*4 Provided Onboard user training video Provided 126(W) x 154(D) x 101(H) mm (without protrusion) Size Size / Weight Weight 0.9kg (without Battery), 1.2kg (with Battery BU-17) Monitor 4.3 inch color LCD display with capacitive touch screen USB port USB 2.0 (mini-B type) Terminals SD / SDHC memory card Max32GB AC 100 - 240V, 50 / 60Hz (ADC-15) Strage media AC input DC input DC 10 - 15V Power supply Battery pack Li-ion 10.8V, 4,560mAh (BU-17) Altitude : 0 ~ 5,000m, Temperature : -10 ~ +50°C, Humidity : 0 ~ 95%RH (non-condensing), Operation condition Wind velocity : up to 15m/sec Temperature: -40 ~ +80°C, Humidity: 0 ~ 95%RH (non-condensing), Strage condition Battery: -20 ~ +30°C (long term) Electrode life *5 6,000 arc discharges

- 4: SumiCloud availability / wireless LAN connectivity depends on region. More details: https://global-sei.com/sumitomo-electric-splicers/products/sumicloud/: Average value of the final inspection in room temperature with Sumitomo identical fibre. Measured by cut-back method relevant to ITU-T and IEC standards. : Splice & Heat cycles may vary depending on the battery status and the operating environment. : Achieved in lab condition. Electrode life may vary depending on the operating environment.

Internet

Environmental Durability*

Software updates

Data management

Test details	
Shock resistance	Drop from 76cm on 5 faces (excluding top face)
Rain resistance	Equivalent IPx2
Dust resistance	Equivalent IP5X

*Splicer operation after shock, impact, water or dust tests, was confirmed under battery power, by Sumitomo.

Does not guarantee the product will not be damaged by these conditions.

Standard Kit Contents

Part name	Part No.	Qty.	П	
AC adapter	ADC-15	1pc	П	
AC power cord	PC-AC< * >-2P	1pc	П	
Battery pack	BU-17	1pc	П	
Spare electrode	ER-17	1pair	Ш	
Quick reference guide	_	1pc	'	

Part name	Part No.	Qty.
Carrying case	CC-17	1pc
Working tray	WT-17	1pc
Shoulder belt	 	1pc
USB cable	—	1pc

X=2(USA), 3(EU), 4(JP), 5(UK), 6(AUS), 7(South Africa) Items listed in Standard Kit Contents are always included with the splicer body. Overall kit content may vary regionally. Please check with your local authorised reseller to confirm kit content in your region.

Optional Accessories

Can be stored, edited and analyzed by dedicated PC software

	Part name	Part No.	Remarks
Accessories	SumiCloud card	WLSD-0416	For SumiCloud™ connection
	Fiber holder	FHS-025-LB5-L	
	Transfer clamp	CLP-201	Transferring drop cable on working tray
re:	Battery pack	BU-17	Li-ion 10.8V, 4,560mAh
s for	Battery charger	BC-17	For BU-17
S	Car battery cable	PC-V25	For car battery operation (cigarette socket type)
Splicer	Electrode	ER-17	
er	Cooling tray	FCT-17	_
	Fiber cleaver	FC-6S-C	Table-top high precision cleaver
		FC-6RS-C	Automatic blade rotation cleaver
Acc	Hand held fiber cleaver	FC-8R	Automatic blade rotation cleaver with counter
ice			
SS	Jacket remover	JR-M03	Jacket remover for single fiber
옥.	Cleaning kit	FUS-CLK-KIT	Fusion splicer cleaning kit & consumables
ssories	Fiber protection sleeve	FPS-1	60mm, diameter after shrink approx. 3.2mm
		FPS-40	40mm, diameter after shrink approx. 3.2mm
		FPS-61-2.6	61mm, diameter after shrink approx. 2.6mm

Ordering Information

Part Number	Description
TYPE-Q502S-KIT-1H	TYPE-Q502S Quantum Fusion Splicer Kit includes 250um and 900um Fiber Holders, Fiber Stripper (JR-M03), One Pack of Fiber Protection Sleeves, Hard Shipping Case, one set of Spare Electrodes (ER-17), AC Interface/Battery Charger with Power Cord, Battery Unit (BU-17), Cleaning Kit (FUS-CLN-KIT)
TYPE-Q502S-KIT-2H	TYPE-Q502S Quantum Fusion Splicer Kit includes Fiber Cleaver (FC-6S-C), 250um and 900um Fiber Holders, Fiber Stripper (JR-M03), One Pack of Fiber Protection Sleeves, Hard Shipping Case, one set of Spare Electrodes (ER-17), AC Interface/Battery Charger with Power Cord, Battery Unit (BU-17), Cleaning Kit (FUS-CLN-KIT)
TYPE-Q502S-KIT-6RSCH	TYPE-Q502S Quantum Fusion Splicer Kit includes 250um and 900um Fiber Holders, Precision Cleaver w/ Auto Rotating Blade (FC-6RS-C), Fiber Stripper (JR-M03), One Pack of Fiber Protection Sleeves, Hard Shipping Case, set of Spare Electrodes (ER-17), AC Interface/Battery Charger with Power Cord, Battery Unit (BU-17), Cleaning Kit (FUS-CLN-KIT)
TYPE-Q502S-KIT-8RH	TYPE-Q502S Quantum Fusion Splicer Kit includes 250um and 900um Fiber Holders, Precision Cleaver w/ Auto Rotating Blade (FC-8R), Fiber Stripper (JR-M03), One Pack of Fiber Protection Sleeves, Hard Shipping Case, set of Spare Electrodes (ER-17), AC Interface/Battery Charger with Power Cord, Battery Unit (BU-17), Cleaning Kit (FUS-CLN-KIT)

Sumitomo Electric Industries, Ltd.